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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,472	10/12/2007	Luc Belley	ALCN-144US	9708
23122 RATNERPRES	7590 09/11/200 S TIA	EXAMINER		
P.O. BOX 980		MCGUTHRY BANKS, TIMA MICHELE		
VALLEY FORGE, PA 19482			ART UNIT	PAPER NUMBER
		1793		
			MAIL DATE	DELIVERY MODE
			09/11/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)						
Office Action Commence	10/590,472	BELLEY ET AL.						
Office Action Summary	Examiner	Art Unit						
	TIMA M. MCGUTHRY-BANKS	1793						
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on								
·— · · · · · · · · · · · · · · · · · ·								
3) Since this application is in condition for allowar		secution as to the merits is						
· ·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdray	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1-5,8,9 and 11-25</u> is/are allowed.								
6)⊠ Claim(s) <u>6,7 and 10</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or	election requirement.							
Application Papers								
9) The specification is objected to by the Examine	r							
		o by the Examiner						
	10)☑ The drawing(s) filed on <u>23 August 2006</u> is/are: a)☐ accepted or b)☑ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correcti		• •						
		• •						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date (3).	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) ite						

DETAILED ACTION

Status of Claims

Claims 1-25 are as originally presented.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 41-47. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p) (5) because they include the following reference character(s) not mentioned in the description: 50-57, 60-62 and

64-66. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the removable cover must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet"

pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Means plus Function Analysis

Claim	Prong 1	Prong 2	Prong 3	Written
	"means for" or	modified by	modified by sufficient	description
	"step for"	functional language	structure, material or acts	
14	"means for"	"raising and	"the closure unit"	page 9, lines
14		lowering"		18-22

The aforementioned limitations in Claim 14 invoke 35 U.S.C. 112, 6th paragraph.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6, 7 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 recites the limitation "the conduit" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 7 recites the limitation "the priming" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim 10 recites the limitation "the filtration area" in lines 1 and 2. There is insufficient antecedent basis for this limitation in the claim, and it is not clear to what this area refers.

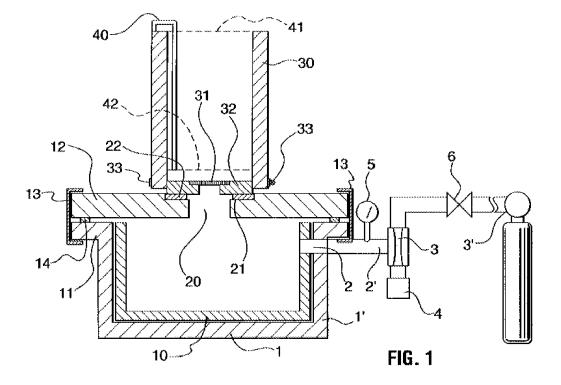
Allowable Subject Matter

Claims 1-5, 8, 9 and 11-25 are allowed.

Claims 6, 7 and 10 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Doutre et al (US 5,827,982), cited in the search report, teaches a portable liquid metal filtration device as shown below in FIG. 1:

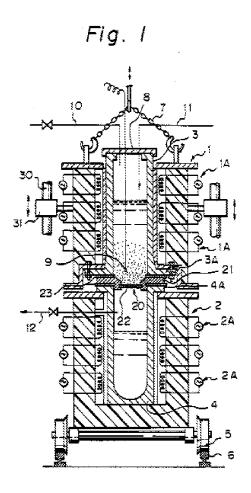


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Regarding Claim 1, Doutre et al does not disclose or suggest closing the molten metal outlet shown by the area around the filter 31 with a sealable cover and then removing the sealable cover from the molten metal outlet as claimed. Regarding Claim 14, Doutre et al does not disclose or suggest a discharge trough, a vertically movable closure unit or a means for raising and lowering the closure unit as claimed.

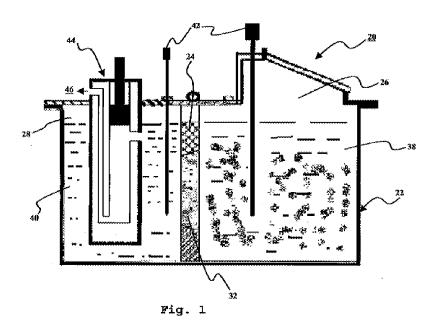
Mochizuki et al (US 4,817,918) teaches an apparatus for filtering scraps of light metal as shown in Fig. 1:



Upon achieving the required filtering temperature, the interior of the upper crucible 3 is pressurized (column 5, line 65-67), or the crucible 4 is depressurized (column 6, line 1).

Regarding Claim 1, Mochizuki et al does not disclose or suggest closing the molten metal outlet shown by the area around the filter 20 with a sealable cover and then removing the sealable cover from the molten metal outlet as claimed. Regarding Claim 14, Mochizuki et al does not disclose or suggest a discharge trough, a vertically movable closure unit or a means for raising and lowering the closure unit as claimed.

WO 03/033748 A1 teaches a filtration system for magnesium recycling and purification as shown below in Fig. 1:



WO '748 teaches a closeable outlet at 44, which is an extractor that uses a piston (page 6 lines 24-27). Regarding Claim 1, WO '748 does not disclose a filter mounted substantially horizontally, applying a vacuum, withdrawing a stream of air through a fan or air venture and releasing the vacuum as claimed. Regarding Claim 14, WO '748 does not disclose a filter mounted substantially horizontally, an exit well beneath the filter, a trough, an air conduit and valve as claimed.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMA M. MCGUTHRY-BANKS whose telephone number is (571)272-2744. The examiner can normally be reached on M-F 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Wyszomierski/ Primary Examiner Art Unit 1793 Page 8

/T. M. M./ Examiner, Art Unit 1793 11 September 2009